SECTION 4 Description of Operation

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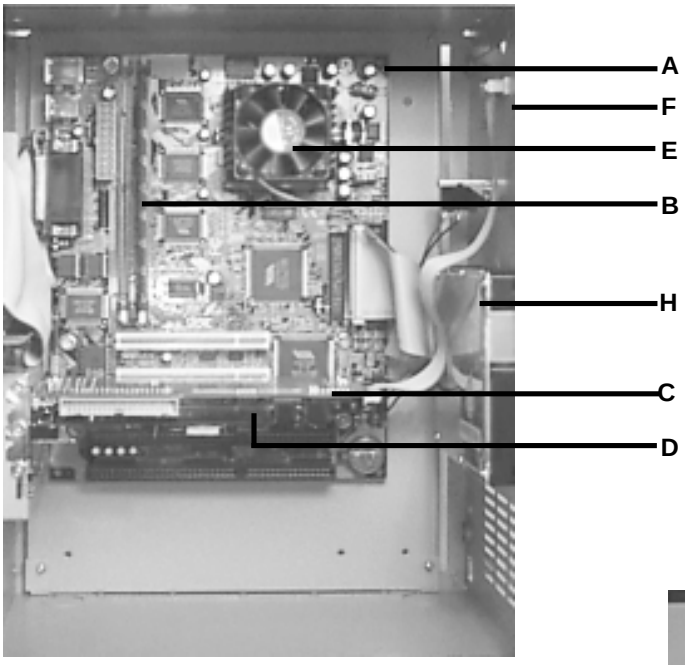
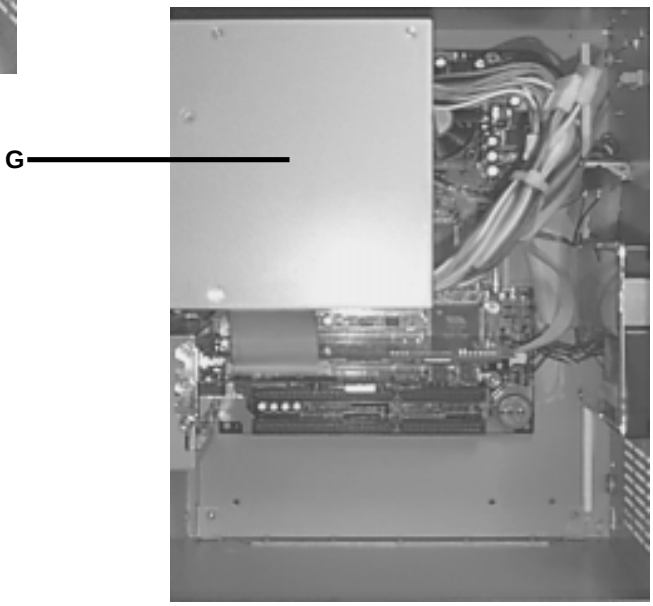
DESCRIPTION OF OPERATION

1. INTERNAL COMPONENT IDENTIFICATION





A Mother Board
B RAM and RAM Expansion Slot
C Output Interface PCB (OIF PCB)
D Ethernet PCB
E Processor and Fan
F Panel PCB
G Power Supply Unit (PSU)
H Hard Disk Drive (HDD)

A Motherboard

This has the same function as the motherboard (or system board) in a PC. However the motherboard is specially configured to work with the components in the SC7700. All other components are connected via the motherboard.

B RAM and RAM Expansion Slot

One 32Mb 168pin DIMM is installed at the factory. This is expandable to a maximum 64Mb.

One free expansion slot is provided for extra an DIMM to be added if required.

C Output Interface PCB (OIF PCB)

For communication between the SC7700 and the RISOGRAPH, the OIF PCB also contains the internal connection for the SC7700`s `Centronics` connector. The OIF PCB is a specially designed interface card for use with RISOGRAPH interface technology.

Scan data, print data commands and status are all transferred via the OIF PCB to the motherboard using a PCI slot. A ribbon cable connects the OIF PCB to the motherboard to enable the speaker connected to the OIF PCB. For a list of audible codes see Section 6 troubleshooting.

D Ethernet PCB

This is a 10/100BaseTX network card for connection to a network, PC or Macintosh computer.

Transfers the TCP/IP or EtherTalk data from the Ethernet connection to the motherboard via a PCI slot.

E Processor and Fan

The processor manages the flow and processing of all data via the Mother Board. The processor has a dedicated cooling fan to prevent overheating. This is fed a 12V supply directly from the PSU.

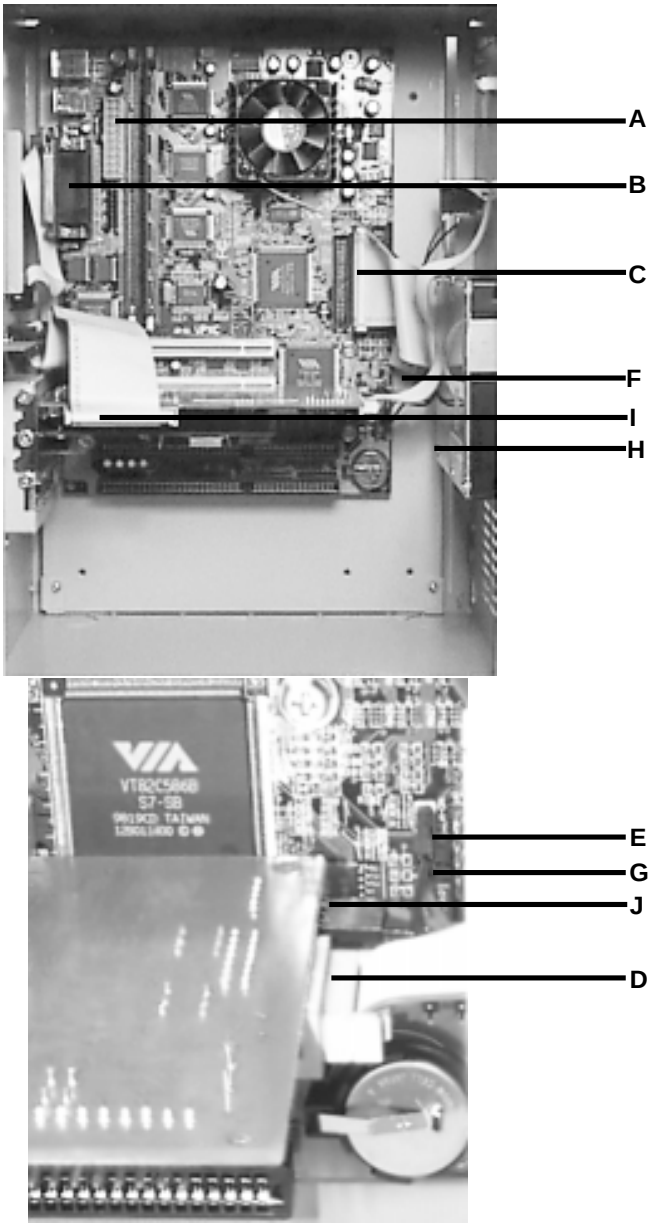
G Power Supply Unit (PSU)

Transfers the input power voltage and AC current into 12 V and 5 V DC. For use by all of the components in the SC7700.

H Hard Disk Drive 2.5 GB disk capacity minimum (HDD)

The hard disk is used to store the system software of the SC7700.
The resident fonts and any fonts downloaded to the hard disk by the user from a computer are also stored on the hard disk. The hard disk is also used for job spooling and for bitmap spooling.

2. INTERNAL CONNECTION IDENTIFICATION



A Power inputs to the motherboard from the PSU (orange connectors are aligned to the right.)

B Serial communication connection from serial connector to the motherboard (COM1).

C IDE connection from motherboard to internal hard disk (connected to primary IDE connector).

D Connection from OIF PCB to front panel keys and LED`s.

E ON/OFF switch connection from the front panel to the motherboard.

F Fan connection to PSU.

G Connection to OIF PCB from the motherboard for the speaker.

H Hard disk power input connection from power supply.

I OIF PCB to parallel `Centronics` connector

J OIF PCB to motherboard speaker connection